

# Contents

- J.G. CARBONELL (Pittsburgh, PA)
- 1 Introduction: Paradigms for Machine Learning
- J.H. GENNARI, P. LANGLEY and D. FISHER (Irvine, CA)
- 11 Model of Incremental Concept Formation
- S. MINTON, J.G. CARBONELL, C.A. KNOBLOCK, D.R. KUOKKA,  
O. ETZIONI and Y. GIL (Pittsburgh, PA)
- 63 Explanation-Based Learning: A Problem Solving Perspective
- J. MOSTOW (New Brunswick, NJ)
- 119 Design by Derivational Analogy: Issues in the Automated Replay of  
Design Plans
- G.E. HINTON (Toronto, Ont.)
- 185 Connectionist Learning Procedures
- L.B. BOOKER, D.E. GOLDBERG and J.H. HOLLAND  
(Ann Arbor, MI)
- 235 Classifier Systems and Genetic Algorithms
- P. LANGLEY (Irvine, CA) and J.M. ZYTKOW (Wichita, KS)
- 283 Data-Driven Approaches to Empirical Discovery
- J.R. ANDERSON (Pittsburgh, PA)
- 313 A Theory of the Origins of Human Knowledge
- R.C. SCHANK and D.B. LEAKE (New Haven, CT)
- 353 Creativity and Learning in a Case-Based Explainer
- 387 MASTER INDEX — Volumes 31-40